

Plan 1 - \$35 - 400 minutes monthly

Plan 2 - \$40 - 500 min. monthly

Plan 3 - \$60 - 1,000 min monthly

Her plan - \$40 - 450 min. monthly

8/10

who are you?

Plan 1 = 
$$\begin{array}{r} 35 \overline{) 11.00} \\ \underline{3 \ 385} \\ 150 \end{array}$$

Plan 1 = \$0.09 per min

$$\begin{array}{r} 0.0875 \\ 400 \overline{) 35.00} \\ \underline{3200} \\ 3000 \\ \underline{2800} \\ 200 \\ \underline{200} \\ 0 \end{array}$$

Plan 2 = 
$$\begin{array}{r} 0.08 \\ 500 \overline{) 40.00} \\ \underline{4000} \\ 0 \end{array}$$

Plan 2 = \$0.08 per min.

Plan 3 - 
$$\begin{array}{r} 0.06 \\ 1,000 \overline{) 60.00} \\ \underline{6000} \\ 0 \end{array}$$

Plan 3 = \$0.06 per min

Her plan - 
$$\begin{array}{r} 0.088888889 \\ 450 \overline{) 40.00} \\ \underline{3600} \\ 4000 \\ \underline{3600} \\ 400 \\ \underline{400} \\ 0 \end{array}$$

0.088

\$0.09 per min.

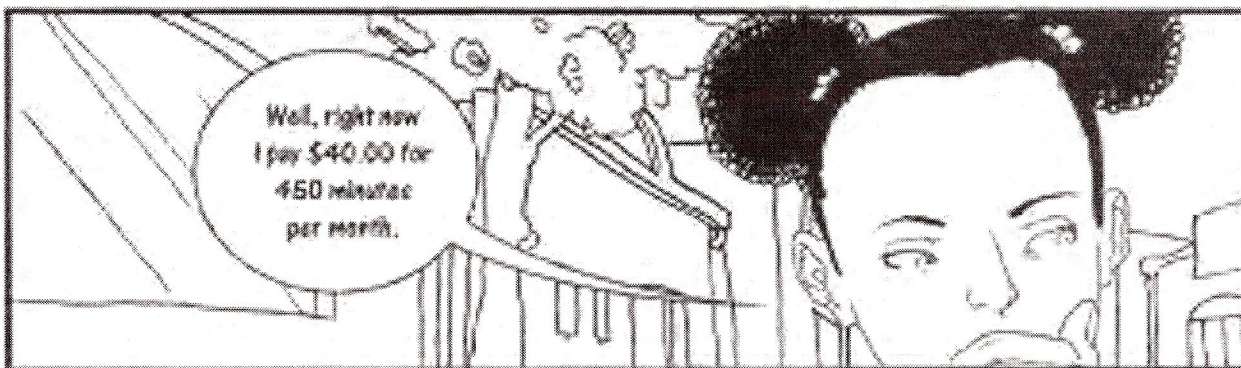
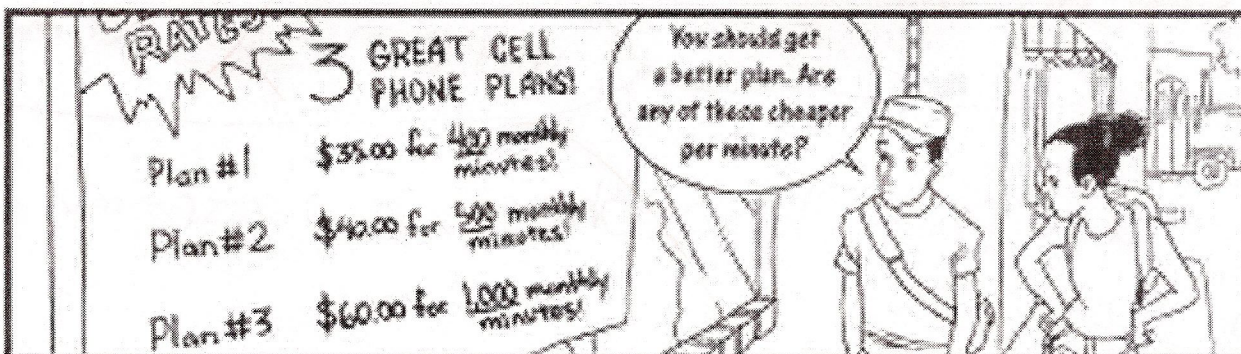
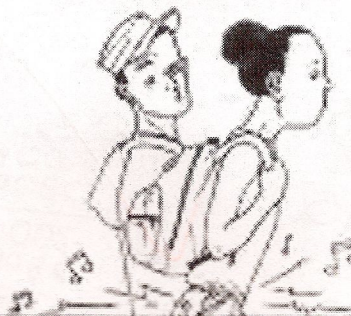
Her plan - ~~\$0.089~~ per min

She should pick Plan 3. She only pay 6 cents per min and \$60 for 1,000 minutes.



Rashonda and Jordan in

# Talk is Cheap





2. Kanye West expects to sell 350,000 albums in one week.

a. How many albums will he have to sell every day in order to meet that expectation?

$$\frac{7x = 350,000}{7} \quad a = 7 \quad a = 50,000$$

b. West has a personal goal of selling 5 million albums. If he continues to sell albums at the same rate, how long will it take him to achieve that goal? Explain how you made your decision.

$$\frac{5,000,000}{50,000}$$

$$b = 100$$

b = number of days

I wrote my answer based to how many weeks it took to sell 50,000 .. which 100 weeks for 5 million

c. The equation  $y = 40,000x$ , where  $x$  is the number of days and  $y$  is the number of albums sold, describes the number of albums another singer expects to sell. Does this singer expect to sell more or fewer albums than West? Justify your response.

$$\frac{40,000}{7} = 280,000$$

2. Kanye West expects to sell 350,000 albums in one week.

a. How many albums will he have to sell every day in order to meet that expectation?

350,000 1 week      50,000 - 72350,000 Albums

50,000 Albums each day

b. West has a personal goal of selling 5 million albums. If he continues to sell albums at the same rate, how long will it take him to achieve that goal? Explain how you made your decision.

$350,000 + 350,000 = 700,000$        $700,000 + 350,000 = 1,050,000$        $1,050,000 + 350,000 = 1,400,000$        $1,400,000 + 350,000 = 1,750,000$        $1,750,000 + 350,000 = 2,100,000$        $2,100,000 + 350,000 = 2,450,000$        $2,450,000 + 350,000 = 2,800,000$        $2,800,000 + 350,000 = 3,150,000$        $3,150,000 + 350,000 = 3,500,000$

14 weeks      14.28

14 weeks 2 days

c. The equation  $y = 40,000x$ , where  $x$  is the number of days and  $y$  is the number of albums sold, describes the number of albums another singer expects to sell. Does this singer expect to sell more or fewer albums than West? Justify your response.

$y = 40,000x$        $x = \text{days}$        $y = \text{number of Albums sold}$

Fewer Albums because Kanye is selling 50,000 per day while this singer is selling 40,000 Albums per day.



~ Part A ~

$$9.99 + 25n = 113.74$$

$$-9.99 + 25n = 9.99$$

$$\frac{25n}{25} = \frac{103.75}{25} \quad * \text{ let } n = \text{minutes}$$

$$n = 41.5$$

~ Part B ~

$$19.99 + .15n = 113.74$$

$$-19.99 + .15n = -19.99$$

$$\frac{.15n}{.15} = \frac{93.75}{.15}$$

\* Let  $n = \text{minutes}$

$$n = 625$$

~ Part C ~

My friend would get a better plan (plan B) because you get to talk for more minutes.



## POW #4-2

**CELL PHONES** Use the poster at the right. If your bill for one month was \$113.74, find the number of minutes you used.



a. Write an equation that will be used to solve the number of minutes you used this month

b. If your friend has a plan that charges 19.99 a month / \$ .15 a minute pay-as you-go and he paid 113.74 how many minutes did he use up for the month?

c. Who has a better plan explain in words?

# POW

Airline schedule Minneapolis,MN to Dallas,TX		
Flight Number	Departure Time	Arrival Time
253	8:20 A.M.	10:37 A.M.
142	11:52 A.M.	1:45 P.M.
295	12:00 P.M.	3:30 P.M.

## Questions

5. Charles needs to take Flight 295. He needs 45 minutes to eat breakfast and pack. It takes 25 minutes to get to the airport. To be at the airport 90 minutes early, what is the latest time he can start eating breakfast?

6. Mrs. Gonzales left her office at 7:25 a.m... She planned that it would take over 30 minutes to get to the airport, but the traffic was so heavy it took her an additional 20 minutes. It takes 30 minutes to check her baggage and walk to the boarding gate. What is the first flight she can take to Dallas?

Answers on the next page

5)	12:00	10:30	10:05
	<u>- 1:30</u>	<u>- :25</u>	<u>- :45</u>
	10:30	10:05	9:20

9:20 IS THE LATEST TIME HE CAN START EATING HIS BREAKFAST

9:20	10:05	10:30
<u>+ :45</u>	<u>+ :25</u>	<u>+ 1:30</u>
10:05	10:30	12:00

1:30=90 minutes early  
:25=time it takes to get to airport  
:45=minutes to eat and pack

9:20 is the latest time Charles can leave because if you add 9:20 and 45 minutes you get 10:05 plus 25 minutes is 10:30 plus 1 hour and 30 minutes you get 12:00 this is shown in the **check problems**.

6)	7:25	7:55	8:15
	<u>+ :30</u>	<u>+ :20</u>	<u>+ :30</u>
	7:55	8:15	8:45

The first flight she can take is flight 142 which leaves at 11:52

8:45	8:15	7:55
<u>- :30</u>	<u>- :20</u>	<u>- :30</u>
8:15	7:55	7:25

:30=time to get to the airport  
:20=additional time to get to airport  
:30=time to check her baggage and go to boarding gate

flight 142 is the first flight she can take because by the time she gets to the airport and do her baggage and walk to the boarding gate it will be 8:45. The first flight that takes off leaves at 8:20. she will be to late for that plane. The second flight that takes off leaves at 11:52. That is past the time that she gets done.